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- 1 [Puppetnets: Misusing Web Browsers as a Distributed Attack Infrastructure](#)
 Spiros Antonatos, Periklis Akrilidis, Vinh The Lam, Kostas G. Anagnostakis
 December 2008 **Transactions on Information and System Security (TISSEC)**
 Issue 2

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (1.55 MB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 315, Citations: 1

Most of the recent work on Web security focuses on preventing attacks on the browser's host machine and user. In this paper we attempt to quantify the number of browsers being indirectly misused for attacking third parties. Specifically,

Keywords: Web security, distributed attacks, malicious software

- 2 [An efficient system-on-a-chip design methodology for networking applications](#)
 Valentina Salapura, Christos J. Georgiou, Indira Nair
 September 2004 **CASES '04: Proceedings of the 2004 international conference on Embedded systems architecture, and synthesis for embedded systems**

Publisher: ACM

Full text available: Pdf (184.23 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 44, Citations: 1

This paper presents a System-on-a-Chip design methodology that uses a microprocessor subsystem as a building block for the development of chips for networking applications. The microprocessor subsystem is a self-contained macro that functions as a network accelerator ...

Keywords: network processor, system-on-a-chip

- 3 [An effective defense against email spam laundering](#)
 Mengjun Xie, Heng Yin, Haining Wang
 October 2006 **CCS '06: Proceedings of the 13th ACM conference on Computer and communications security**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (362.04 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 190, Citations: 1

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Laundering email spam through open-proxies or compromised PCs is a way to conceal real spam sources and reduce spamming cost in underground industry. Spammers have been plaguing the Internet by exploiting a large spam ...

Keywords: SPRT, proxy, spam

4 [JiST/MobNet: combined simulation, emulation, and real-world testbeds for mobile networks](#)



Tronje Krop, Michael Bredel, Matthias Hollick, Ralf Steinmetz

September 2007 **WinTECH '07**: Proceedings of the the second ACM international conference on Wireless network testbeds, experimental evaluation and

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (217.57 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 96, Citation

Mobile ad hoc networks are a promising technology enabling the spontaneous formation of communication networks without dedicated infrastructure. However, they are not yet ready for large-scale deployment, because several unsolved

Keywords: emulation, mobile ad hoc networks, simulation

5 [ODSBR: An on-demand secure Byzantine resilient routing protocol for mobile ad hoc networks](#)



Baruch Awerbuch, Reza Curtmola, David Holmer, Cristina Nita-Rotaru, Heri

January 2008 **Transactions on Information and System Security (TISSEC)** Issue 4

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (2.02 MB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 295, Citation

Ad hoc networks offer increased coverage by using multihop communication architecture makes services more vulnerable to internal attacks coming from compromised nodes that behave arbitrarily to disrupt the network, also Byzantine ...

Keywords: Ad hoc wireless networks, byzantine failures, on-demand routing

6 [Network monitoring using traffic dispersion graphs \(tdgs\)](#)



Marios Iliofotou, Prashanth Pappu, Michalis Faloutsos, Michael Mitzenmacher, George Varghese

October 2007 **IMC '07**: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement

Publisher: ACM [Request Permissions](#)


Full text available: Pdf (1.21 MB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 124, Citation

Monitoring network traffic and detecting unwanted applications has become a problem, since many applications obfuscate their traffic using unregistered ports or payload encryption. Apart from some notable exceptions, most traffic

Keywords: behavioral approach, hosts' connection graphs, network monitoring, traffic visualization

7 A methodology for analyzing the performance of authentication protocols

 Alan Harbitter, Daniel A. Menascé

November 2002 **Transactions on Information and System Security (TISSEC)**

Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (1.25 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 238, Citations: 1

Performance, in terms of user response time and the consumption of processing and communications resources, is an important factor to be considered when evaluating authentication protocols. The mix of public key and secret key encryption typically ...


Keywords: Authentication, Kerberos, mobile computing, performance measurement, servers, public key cryptography

8 Characteristics of internet background radiation

 Ruoming Pang, Vinod Yegneswaran, Paul Barford, Vern Paxson, Larry Peter

October 2004 **IMC '04: Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (396.12 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 123, Citations: 1

Monitoring any portion of the Internet address space reveals incessant activity that holds even when monitoring traffic sent to unused addresses, which we call "background radiation." Background radiation reflects fundamentally network traffic, ...

Keywords: honeypot, internet background radiation, network telescope

9 Puppetnets: misusing web browsers as a distributed attack infrastructure

 V. T. Lam, S. Antonatos, P. Akrividis, K. G. Anagnostakis

October 2006 **CCS '06: Proceedings of the 13th ACM conference on Computer and communications security**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (871.35 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)


Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 289, Citations: 1

Most of the recent work on Web security focuses on preventing attacks

the browser's host machine and user. In this paper we attempt to quantify browsers being *indirectly* misused for attacking third parties. ...

Keywords: distributed attacks, malicious software, web security

10 Accountable internet protocol (aip)

 David G. Andersen, Hari Balakrishnan, Nick Feamster, Teemu Koponen, Da Scott Shenker

August 2008 **SIGCOMM '08**: Proceedings of the ACM SIGCOMM 2008 conference on communication

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (642.52 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 352, Citations


This paper presents AIP (Accountable Internet Protocol), a network architecture that provides accountability as a first-order property. AIP uses a hierarchy of addresses, in which each component is derived from the public key of the corresponding ...

Keywords: accountability, address, internet architecture, scalability, security

Also published in:


October 2008 **SIGCOMM Computer Communication Review** Volume 38 Issue

11 Unexpected means of protocol inference

 Justin Ma, Kirill Levchenko, Christian Kreibich, Stefan Savage, Geoffrey M.

October 2006 **IMC '06**: Proceedings of the 6th ACM SIGCOMM conference on Internet measurement

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (301.59 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 61, Citations

Network managers are inevitably called upon to associate network traffic with applications. Indeed, this operation is critical for a wide range of management tasks ranging from debugging and security to analytics and policy support. Tr

Keywords: application signatures, network data mining, protocol analysis, entropy, sequence analysis, statistical content modeling, traffic classification

12 Web tap: detecting covert web traffic

 Kevin Borders, Atul Prakash

October 2004 **CCS '04**: Proceedings of the 11th ACM conference on Computer and communications security

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (129.06 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 148, Citations


As network security is a growing concern, system administrators lock down networks by closing inbound ports and only allowing outbound communication for selected protocols such as HTTP. Hackers, in turn, are forced to find ways to communicate ...

Keywords: HTTP, anomaly detection, covert channels, intrusion detection, tunnels

13 Bimodal multicast

 Kenneth P. Birman, Mark Hayden, Ozgur Ozkasap, Zhen Xiao, Mihai Budiu, May 1999 **Transactions on Computer Systems (TOCS)**, Volume 17 Issue 2


Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (302.06 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 195, Citations

There are many methods for making a multicast protocol "reliable." At one end of the spectrum, a reliable multicast protocol might offer atomicity guarantees, reliable delivery, delivery ordering, and perhaps additional properties ..

14 Simulation validation using direct execution of wireless Ad-Hoc routing

 Jason Liu, Yougu Yuan, David M. Nicol, Robert S. Gray, Calvin C. Newport, Felipe Perrone

May 2004 **PADS '04: Proceedings of the eighteenth workshop on Parallel and distributed simulation**

Publisher: ACM

Full text available:  Pdf (255.14 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 58, Citations


Computer simulation is the most common approach to studying wireless algorithms. The results, however, are only as good as the models the simulator uses. One should not underestimate the importance of *validation*, as inaccurate simulations can lead to incorrect conclusions.

15 On Inferring Application Protocol Behaviors in Encrypted Network Traffic

Charles V. Wright, Fabian Monrose, Gerald M. Masson

December 2006 **The Journal of Machine Learning Research**, Volume 7

Publisher: MIT Press

Full text available:  Pdf (309.38 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 178, Citations

Several fundamental security mechanisms for restricting access to network resources rely on the ability of a reference monitor to inspect the contents of traffic passing through the network. However, with the increasing popularity of cryptographic protocols, this ability is being challenged.

16 Multi-radio diversity in wireless networks

Alien Miu, Hari Batakrisnan, Can Emre Koksal

December 2007 **Wireless Networks**, Volume 13 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (954.59 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 146, Citations


This paper describes the Multi-Radio Diversity (MRD) wireless system, which uses diversity to improve loss resilience in wireless local area networks (WLAN). It coordinates wireless receptions among multiple radios to improve loss resilience.

Keywords: bit error, frame combining, packet combining, path diversity, wireless LAN, wireless networks

17 [A first look at modern enterprise traffic](#)

[Ruoming Pang](#), [Mark Allman](#), [Mike Bennett](#), [Jason Lee](#), [Vern Paxson](#), [Brian](#)
October 2005 **IMC '05**: Proceedings of the 5th ACM SIGCOMM conference on Internet Measurement

Publisher: USENIX Association

Full text available:  [Pdf](#) (603.35 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 114, Citations: 1

While wide-area Internet traffic has been heavily studied for many years, the characteristics of traffic inside Internet enterprises remain almost wholly unstudied. Nearly all of the studies of enterprise traffic available in the literature are

18 [Using forgetful routing to control BGP table size](#)



[Elliott Karpilovsky](#), [Jennifer Rexford](#)

December 2006 **CoNEXT '06**: Proceedings of the 2006 ACM CoNEXT conference

Publisher: ACM

Full text available:  [Pdf](#) (315.22 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 37, Citations: 1

Running the Border Gateway Protocol (BGP), the Internet's interdomain routing protocol, consumes a large amount of memory. A BGP-speaking router typically stores more routes, each with multiple attributes, for more than 170,000 addresses.

Keywords: communication networks, performance optimization, workload characterization

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